De Luca et al. Date of Patent: Jun. 17, 1986 [45] [54] CRYSTALLINE ALUMINA COMPOSITES [56] References Cited U.S. PATENT DOCUMENTS [75] Inventors: Robert D. De Luca, Pennington; Robin M. Forbes-Jones, Titusville, 3,625,740 12/1971 Hurley 427/299 both of N.J. 3,764,507 10/1973 McKinnon et al. 317/234 R [73] Assignee: Johnson & Johnson Dental Products Primary Examiner-Lorenzo B. Hayes Company, East Windsor, N.J. Attorney, Agent, or Firm-Charles J. Metz [21] Appl. No.: 602,874 ABSTRACT [57] [22] Filed: Apr. 23, 1984 The adhesion of crystalline alumina to adhesives is enhanced by coating the surface of the alumina that is to Int. Cl.⁴ A01N 1/02; A61C 3/00 [51] be in contact with the adhesive, with a very thin coating of a siliceous material such as sputter coated silica. 427/419.2; 428/689; 433/8; 433/9; 433/199.1 [58] Field of Search 433/199, 8, 9; 428/688, 428/689, 447, 448, 451; 427/2, 407.1, 419.2 19 Claims, 15 Drawing Figures

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